



# TECHNICAL REFERENCES

## ASFPM CERTIFIED FLOODPLAIN MANAGER (CFM®) EXAM



The CFM Exam consists of 120 questions drawn from seven topic categories. This document provides recommended references for review in preparation for the CFM Exam by topic. Some references may appear under more than one exam topic. Review this entire document, then allocate your preparation time accordingly to the references/topics you are least familiar followed by those you are most familiar/knowledgeable. The reference's table of contents may also help to assess familiarity, knowledge, and experience prior to reviewing the document in further detail.

Floodplain Mapping		
<ul style="list-style-type: none"> <li>Base flood concept</li> <li>Discharges, profiles, floodways</li> <li>Coastal flooding</li> </ul>	<ul style="list-style-type: none"> <li>Reading/using maps</li> <li>Revising FEMA maps</li> <li>Future Conditions</li> </ul>	<p><b>Percentage of Total Exam Questions</b></p> <p>20-25%</p> <p>(24-30 questions)</p>
<p><b>FEMA Publication 480</b> - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p>		
<p><b>44 Code of Federal Regulations (CFR):</b></p> <ul style="list-style-type: none"> <li><b>Part 65</b>, Identification and Mapping of Special Hazard Areas <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part65.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part65.pdf</a></li> <li><b>Part 67</b>, Appeals from Proposed Flood Elevation Determinations <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part67.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part67.pdf</a></li> <li><b>Part 70</b>, Procedure for Map Correction <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part70.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part70.pdf</a></li> </ul>		
<p><b>Flood County, USA</b> - Flood Insurance Study (FIS), Flood Insurance Rate Maps (FIRMs), Digital Flood Insurance Rate Maps (DFIRMs) and Engineer Scale: <a href="http://www.floods.org/index.asp?menuid=389">www.floods.org/index.asp?menuid=389</a></p>		
<p>MT-1 Application Forms &amp; Instructions <a href="http://www.fema.gov/mt-1-application-forms-instructions">www.fema.gov/mt-1-application-forms-instructions</a></p> <p>MT-2 Application Forms &amp; Instructions <a href="http://www.fema.gov/mt-2-application-forms-and-instructions">www.fema.gov/mt-2-application-forms-and-instructions</a></p>		

NFIP Regulatory Standards		
<ul style="list-style-type: none"> <li>"Development," requirements for a permit</li> <li>Encroachment rules</li> <li>V Zone rules</li> </ul>	<ul style="list-style-type: none"> <li>Building protection standards</li> <li>Substantial improvement/ damage</li> <li>Floodproofing and retrofitting</li> </ul>	<p><b>Percentage of Total Exam Questions</b></p> <p>20-25%</p> <p>(24-30 questions)</p>
<p><b>FEMA Publication 480</b> - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p>		
<p><b>FEMA Publication F-084</b> - Answers to Questions About the NFIP <a href="http://www.fema.gov/media-library/assets/documents/272">www.fema.gov/media-library/assets/documents/272</a></p>		
<p><b>FEMA Technical Bulletins</b> – Bulletins 0 through 11 <a href="http://www.fema.gov/media-library/collections/4">www.fema.gov/media-library/collections/4</a></p>		
<p><b>44 Code of Federal Regulations (CFR):</b></p> <ul style="list-style-type: none"> <li><b>Part 59</b>, General Provisions and Definitions <a href="http://www.gpo.gov/fdsys/pkg/CFR-2014-title44-vol1/pdf/CFR-2014-title44-vol1-part59.pdf">www.gpo.gov/fdsys/pkg/CFR-2014-title44-vol1/pdf/CFR-2014-title44-vol1-part59.pdf</a></li> <li><b>Part 60.3</b>, Floodplain Management Criteria for Flood-Prone Areas <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-3.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-3.pdf</a></li> </ul>		
<p><b>FEMA Publication 213</b> - Answers to Questions about Substantially Damaged Buildings <a href="http://www.fema.gov/media-library/assets/documents/2969">www.fema.gov/media-library/assets/documents/2969</a></p>		
<p><b>FEMA Publication P-758</b> - Substantial Improvement/Substantial Damage Desk Reference (2010) <a href="http://www.fema.gov/media-library/assets/documents/18562">www.fema.gov/media-library/assets/documents/18562</a></p>		

**TECHNICAL REFERENCES (continued)**  
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Regulatory Administrative Procedures		
<ul style="list-style-type: none"> <li>Permit process and inspections</li> <li>Elevation records</li> <li>NFIP Regulations</li> </ul>	<ul style="list-style-type: none"> <li>Enforcement</li> <li>Variance rules</li> </ul>	<p><b><u>Percentage of Total Exam Questions</u></b>            15-20%            (18-24 questions)</p>
<p>FEMA Publication 480 - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p> <p>NFIP Elevation Certificate and Instructions, Form 086-0-33 (2016) <a href="http://www.fema.gov/media-library/assets/documents/160">www.fema.gov/media-library/assets/documents/160</a></p> <p>FEMA Publication 467-1 – Floodplain Management Bulletin on the Elevation Certificate <a href="http://www.fema.gov/media-library/assets/documents/3539">www.fema.gov/media-library/assets/documents/3539</a></p> <p>FEMA Publication 248 – A Unified National Program for Floodplain Management (1994 or later printing) <a href="http://www.fema.gov/media-library/assets/documents/18472">www.fema.gov/media-library/assets/documents/18472</a></p>		

Flood Insurance		
<ul style="list-style-type: none"> <li>Coverage</li> <li>Rating</li> <li>Mandatory purchase requirements</li> <li>NFIP grandfather rules</li> </ul>	<ul style="list-style-type: none"> <li>ICC (Increased Cost of Compliance)</li> <li>CRS (Community Rating System)</li> <li>Section 1316</li> </ul>	<p><b><u>Percentage of Total Exam Questions</u></b>            10-15%            (12-18 questions)</p>
<p>FEMA Publication 480 - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p> <p>44 Code of Federal Regulations (CFR):</p> <ul style="list-style-type: none"> <li>Part 61, Insurance Coverage and Rates <a href="http://www.gpo.gov/fdsys/pkg/CFR-2010-title44-vol1/pdf/CFR-2010-title44-vol1-part61.pdf">www.gpo.gov/fdsys/pkg/CFR-2010-title44-vol1/pdf/CFR-2010-title44-vol1-part61.pdf</a></li> <li>Part 73, Implementation of Section 1316 of the National Flood Insurance Act of 1968 <a href="http://www.gpo.gov/fdsys/pkg/CFR-2010-title44-vol1/pdf/CFR-2010-title44-vol1-part73.pdf">www.gpo.gov/fdsys/pkg/CFR-2010-title44-vol1/pdf/CFR-2010-title44-vol1-part73.pdf</a></li> </ul> <p>FEMA Publication 301 - Increased Cost of Compliance Coverage - Guidance for State and Local Officials <a href="http://www.fema.gov/media-library/assets/documents/1973">www.fema.gov/media-library/assets/documents/1973</a></p> <p>FEMA Publication FIA-15 - National Flood Insurance Program Community Rating System Coordinator's Manual <a href="http://www.fema.gov/media-library/assets/documents/8768">www.fema.gov/media-library/assets/documents/8768</a></p> <p>NFIP Flood Insurance Manual – (2013 or later) <a href="http://www.fema.gov/flood-insurance-manual">www.fema.gov/flood-insurance-manual</a></p>		

**TECHNICAL REFERENCES (continued)**  
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<b>Flood Hazard Mitigation</b>		
<ul style="list-style-type: none"> <li>Disaster assistance procedures</li> <li>Mitigation planning (DMA2000)</li> </ul>	<ul style="list-style-type: none"> <li>Funding sources</li> <li>Erosion and other flood related hazards</li> </ul>	<b><u>Percentage of Total Exam Questions</u></b> 10-15% (12-18 questions)
<p>FEMA Publication 480 - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials" <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p> <p>FEMA Publication 345 - Hazard Mitigation Grant Program Brochure-Desk Reference <a href="https://www.fema.gov/media-library/assets/documents/1102">https://www.fema.gov/media-library/assets/documents/1102</a></p> <p>Hazard Mitigation Assistance Guidance <a href="http://www.fema.gov/media-library/assets/documents/103279">www.fema.gov/media-library/assets/documents/103279</a></p> <p>44 Code of Federal Regulations (CFR):</p> <ul style="list-style-type: none"> <li>Part 201, Mitigation Planning <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part201.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part201.pdf</a></li> <li>Part 206, Federal Disaster Assistance <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part206.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part206.pdf</a></li> </ul> <p>FEMA Publication 386-1 - Getting Started: Building Support for Mitigation Planning <a href="http://www.fema.gov/media-library/assets/documents/4195">www.fema.gov/media-library/assets/documents/4195</a></p> <p>FEMA Publication 321 – Public Assistance Policy Digest <a href="http://www.fema.gov/media-library/assets/documents/25653">www.fema.gov/media-library/assets/documents/25653</a></p> <p>FEMA Publication 322 - Public Assistance Guide <a href="http://www.fema.gov/media-library/assets/documents/25651">www.fema.gov/media-library/assets/documents/25651</a></p> <p>FEMA Publication P-323 – Public Assistance Applicant Handbook <a href="http://www.fema.gov/media-library/assets/documents/25647">www.fema.gov/media-library/assets/documents/25647</a></p> <p>FEMA Publication 327 – Public Assistance Debris Monitoring Guide <a href="http://www.fema.gov/pdf/government/grant/pa/fema_327_debris_monitoring.pdf">www.fema.gov/pdf/government/grant/pa/fema_327_debris_monitoring.pdf</a></p> <p>FEMA Publication 329 - Debris Estimating Field Guide: <a href="http://www.fema.gov/pdf/government/grant/pa/fema_329_debris_estimating.pdf">www.fema.gov/pdf/government/grant/pa/fema_329_debris_estimating.pdf</a></p> <p>IRS Form 1040X related to disaster casualty losses after a Presidential Declared Disaster is available on the IRS website <a href="http://www.irs.gov/pub/irs-pdf/i1040x.pdf">www.irs.gov/pub/irs-pdf/i1040x.pdf</a></p>		

<b>Natural and Beneficial Functions</b>		
<ul style="list-style-type: none"> <li>Wetlands</li> <li>Multi-objective management</li> <li>NAI (No Adverse Impact)</li> </ul>	<ul style="list-style-type: none"> <li>Stream corridor restoration</li> <li>Water quality (NEPA, NPDES, MS4s)</li> <li>Endangered Species Act (ESA)</li> </ul>	<b><u>Percentage of Total Exam Questions</u></b> 10-15% (12-18 questions)
<p>FEMA Publication 480 - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p> <p>FEMA Publication 248 – A Unified National Program for Floodplain Management (1994 or later printing) <a href="http://www.fema.gov/media-library/assets/documents/18472">www.fema.gov/media-library/assets/documents/18472</a></p> <p>FEMA Publication 268 - Protecting Floodplain Resources- A Guidebook for Communities <a href="http://www.fema.gov/media-library/assets/documents/475">www.fema.gov/media-library/assets/documents/475</a></p> <p>44 Code of Federal Regulations (CFR):</p> <ul style="list-style-type: none"> <li>Part 9, Floodplain Management &amp; Protection of Wetlands <a href="http://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part9.pdf">www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part9.pdf</a></li> </ul>		

TECHNICAL REFERENCES (continued)  
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Overall Context of Floodplain Management		
<ul style="list-style-type: none"> <li>Unified National Program</li> <li>Community sanctions</li> </ul>	<ul style="list-style-type: none"> <li>History and background of the NFIP</li> <li>Other federal programs</li> </ul>	<b><u>Percentage of Total Exam Questions</u></b> 5-10% (6-12 questions)
<p>FEMA Publication 480 - National Flood Insurance Program Floodplain Management Requirements, A Study Guide and Desk Reference for Local Officials <a href="http://www.floods.org/index.asp?menuid=%20389">www.floods.org/index.asp?menuid=%20389</a></p> <p>FEMA Publication 248 – A Unified National Program for Floodplain Management (1994 or later printing) <a href="http://www.fema.gov/media-library/assets/documents/18472">www.fema.gov/media-library/assets/documents/18472</a></p> <p>44 Code of Federal Regulations (CFR):</p> <ul style="list-style-type: none"> <li>Part 59, General Provisions and Definitions <a href="http://www.gpo.gov/fdsys/pkg/CFR-2014-title44-vol1/pdf/CFR-2014-title44-vol1-part59.pdf">www.gpo.gov/fdsys/pkg/CFR-2014-title44-vol1/pdf/CFR-2014-title44-vol1-part59.pdf</a></li> </ul>		

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